Giant Alarm System Co.,Ltd

Swing Gate Opener
JJ-PKM-C01 User Manual

Website: http://www.giantautogate.com/

http://jujiang.en.alibaba.com/

CAUTION: This product must be installed by well-trained skilled professionals in compliance with the regulations concerning the field swing gates opener device. Unqualified personnels or those who do not know the standards applicable in this field should not carry out the installation under any circumstances.

Every time must cut off power supply before starting installation, operation or maintenance.

Please read the manual carefully before installation. Incorrect installtion or misuse of product may cause seriously hurt on people or damage on other objectives.

If the supplied wires damaged or broken, it must be replaced by the manufacturer, its service agent or qualified persons in order to avoid any hazard.

Keep the wireless control system (push-button, transmitters etc) out of the reach of children.

Not allow children or other persons to stand near the motor while in operation.

Not allow to use transmitters to control the gate when it is out of sight.

Not allow to install the products at the place where is corrosive, inflammable,and explosive.

The manually released part of front motor can not be installed to the place where passerby could touch when gate closed.

Please keep this instruction for further reference.

1. Product Description

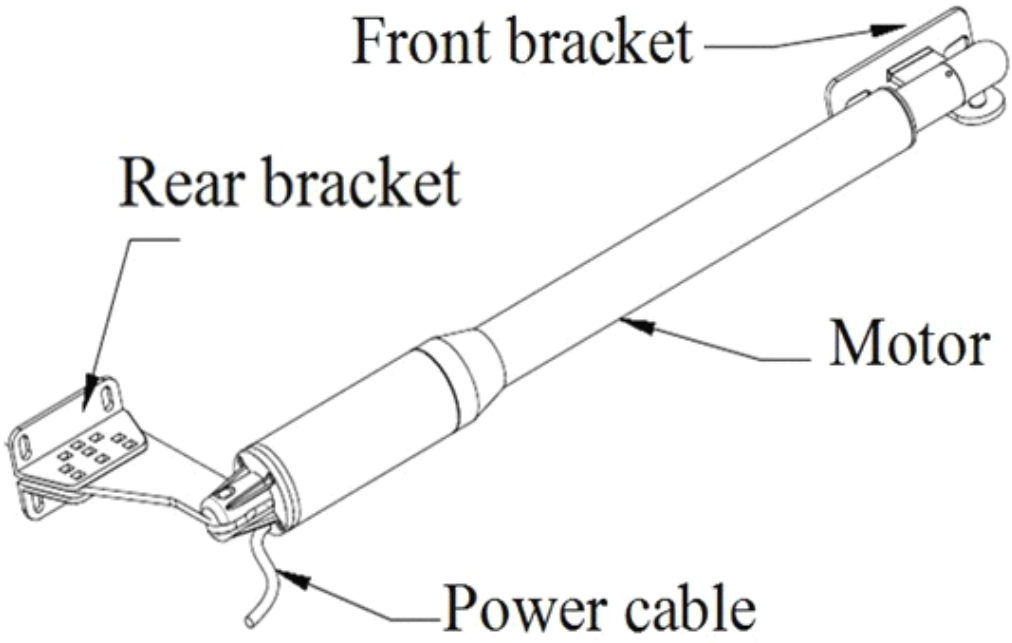


Fig 1

2.Swing Gate Opener Technical Parameters

Input Voltage: 24VDC 40W

Rotational Speed: 250RPM

Rod's Running Speed： 1.6cm/s

Rod's Max Travel： 300mm

Continue running time: 5min

Max Single-leaf Length： 2.5m*2

Travel Max Single-leaf Weight： 300KG

Environment Temperature： -20° C~+50° C

Protection Calss： IP55

3.Spec Size

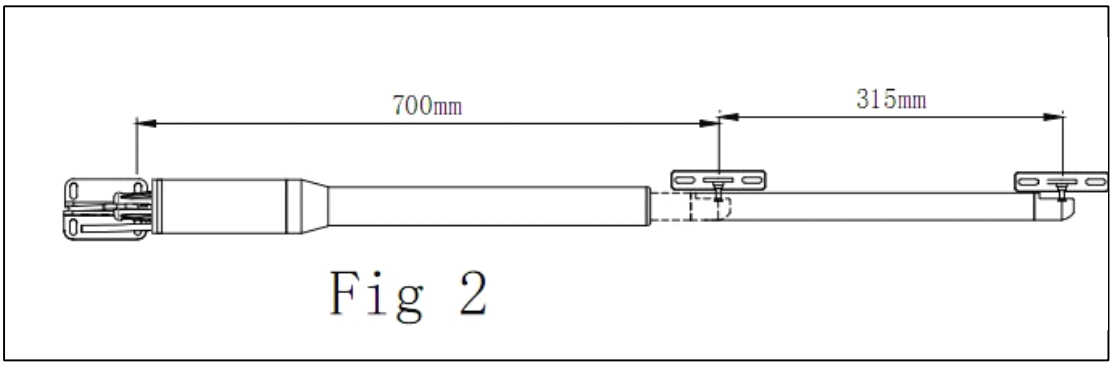


Fig 2

4.Product and Accessories List

Fig.3

5.Installation Description

5.1 Required tools for installation

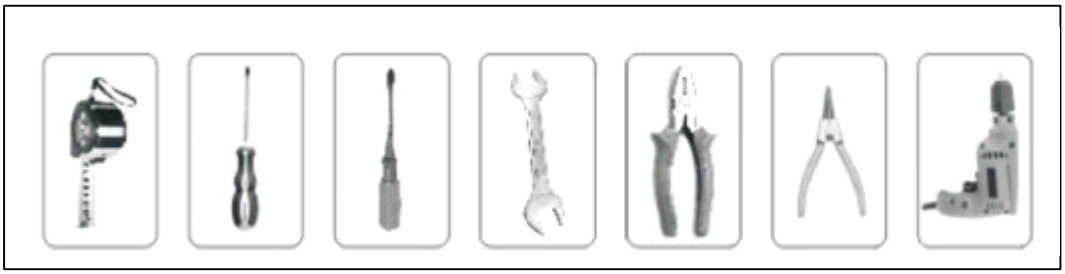


Fig.4

5.2 Installation diagram

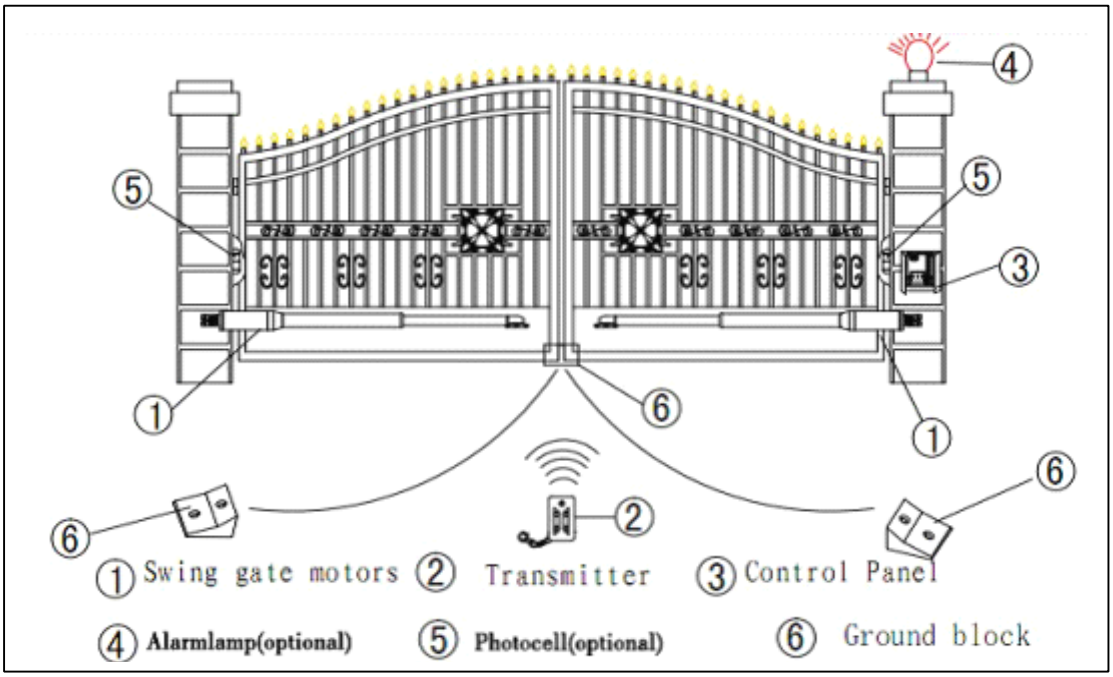


Fig.5

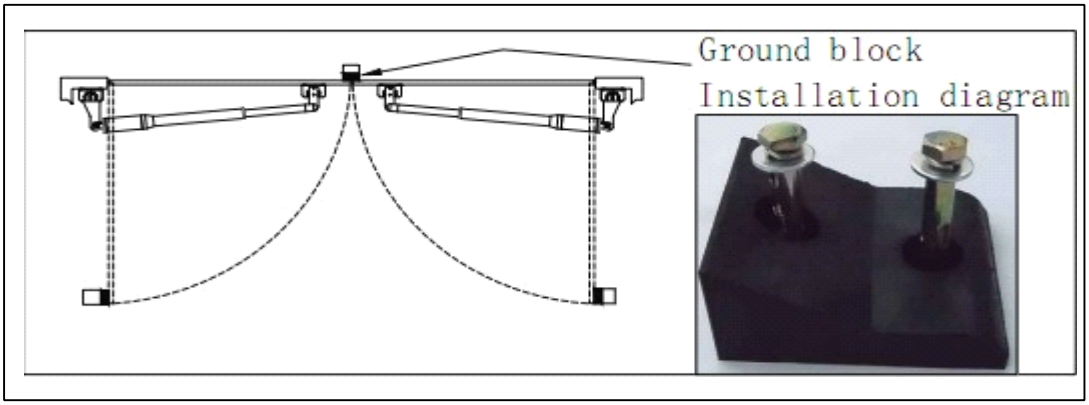
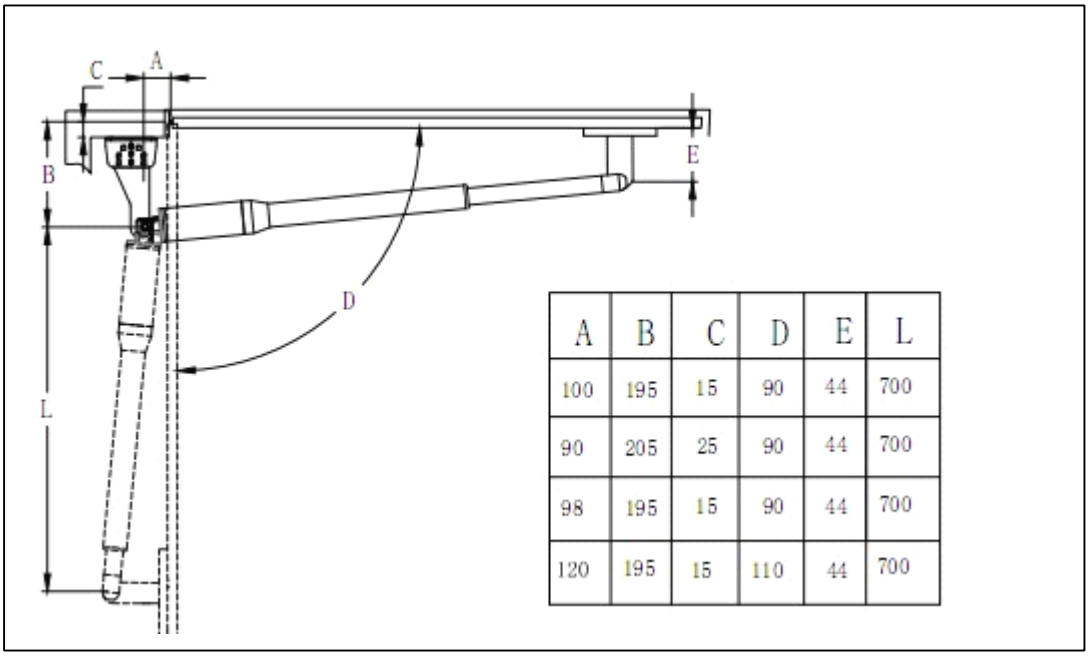


Fig.6

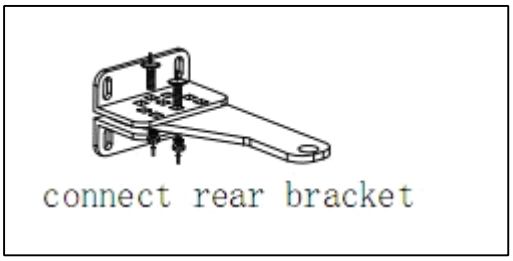
5.3 Installation size(you can adjustment the gate degree according to these numbers)



A	B	C	D	E	L
100	195	15	90	44	700
90	205	25	90	44	700
98	195	15	90	44	700
120	195	15	110	44	700

Fig.7

5.4 Description of installation



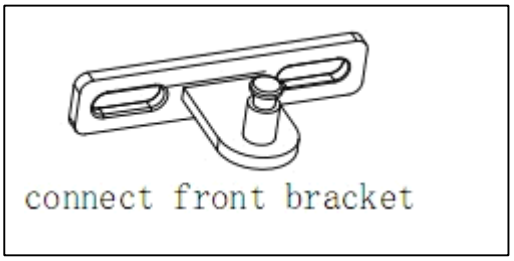
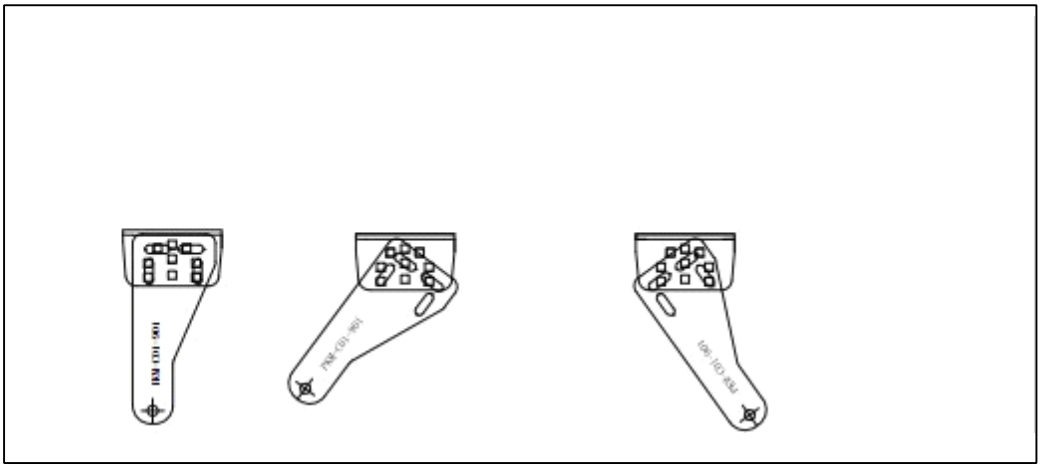
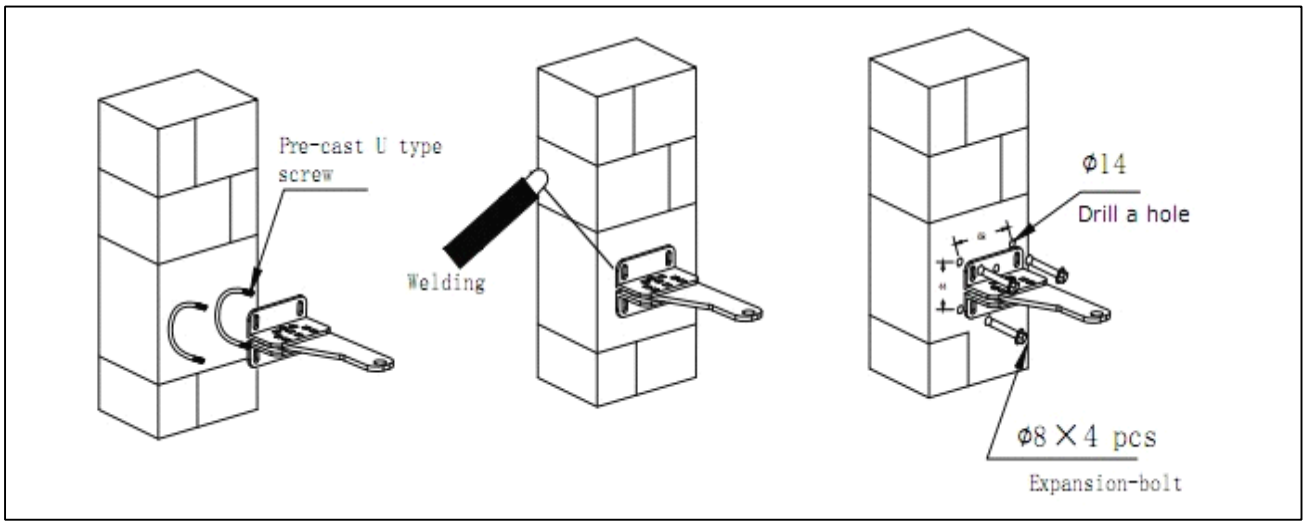


Fig.8

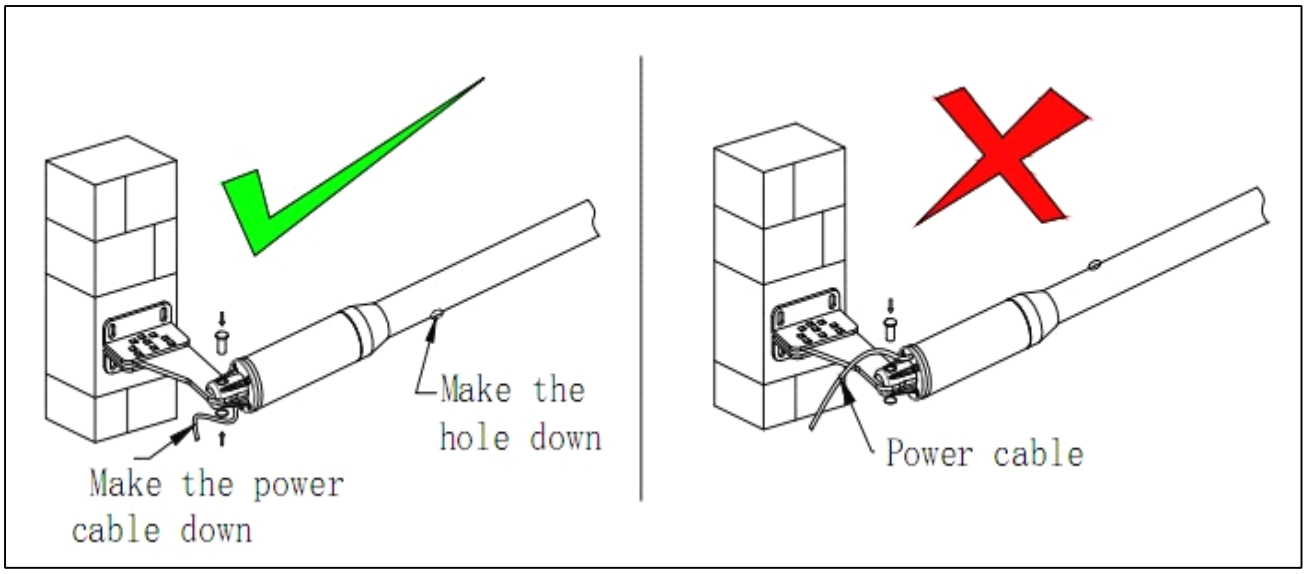
Different connecting method for front and rear bracket.



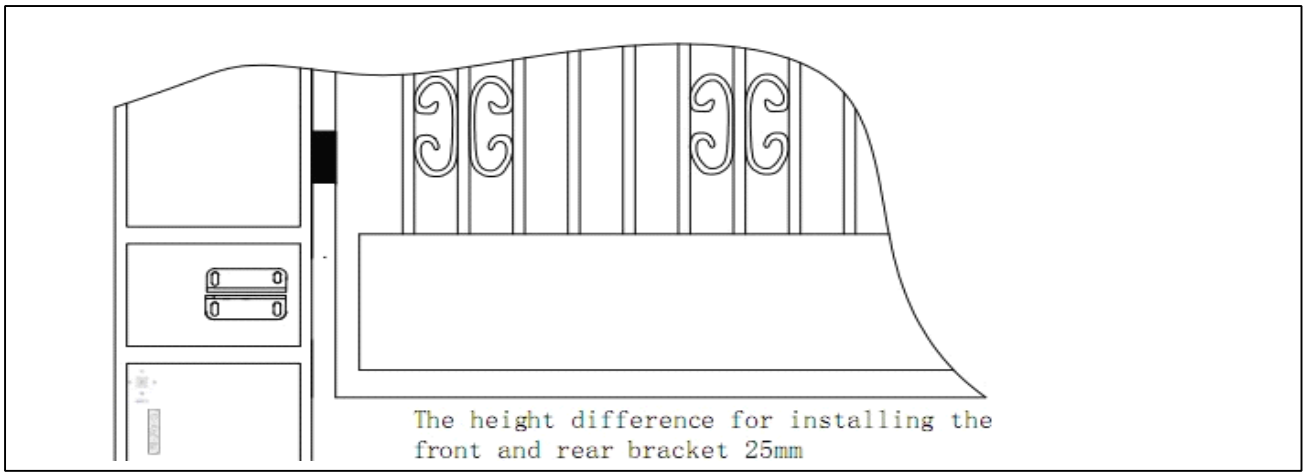
Using different installation method according to different material and environment for front bracket.

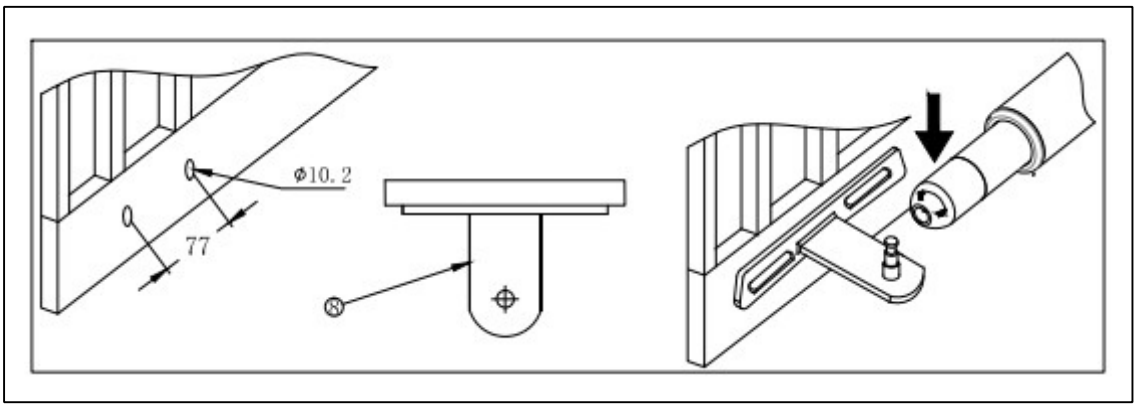


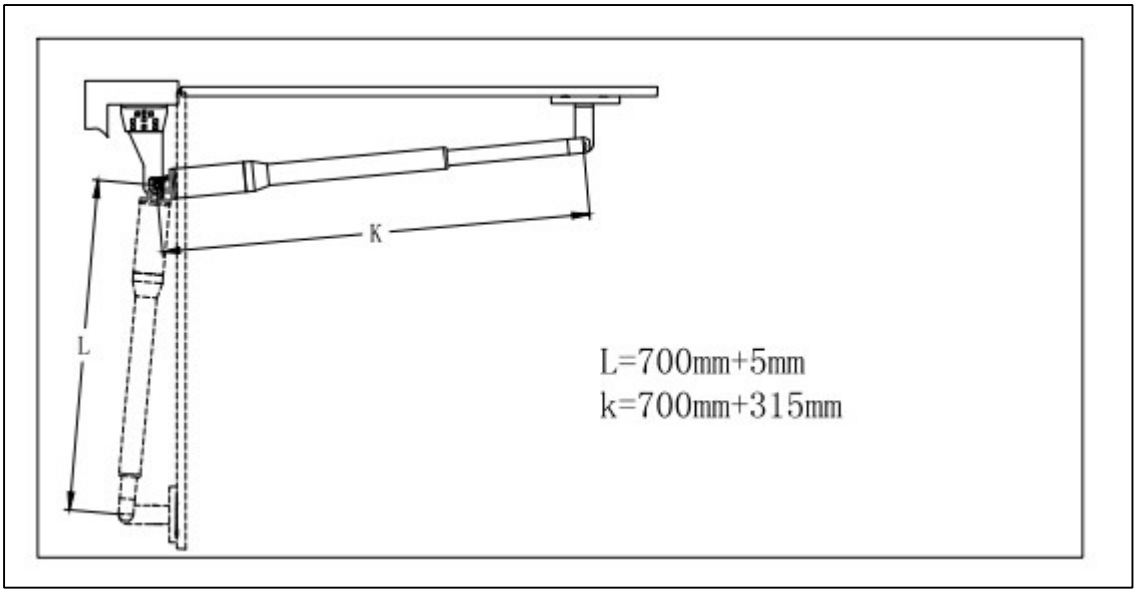
Connection for rear bracket and motor



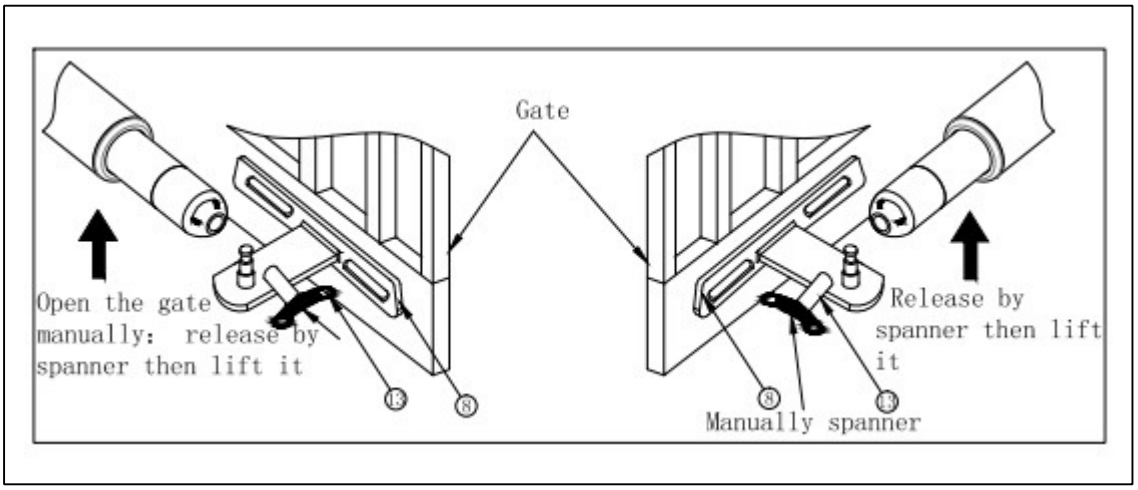
The height difference for installing the front and rear bracket.







Open the gate manually:Release by spanner then lift it.

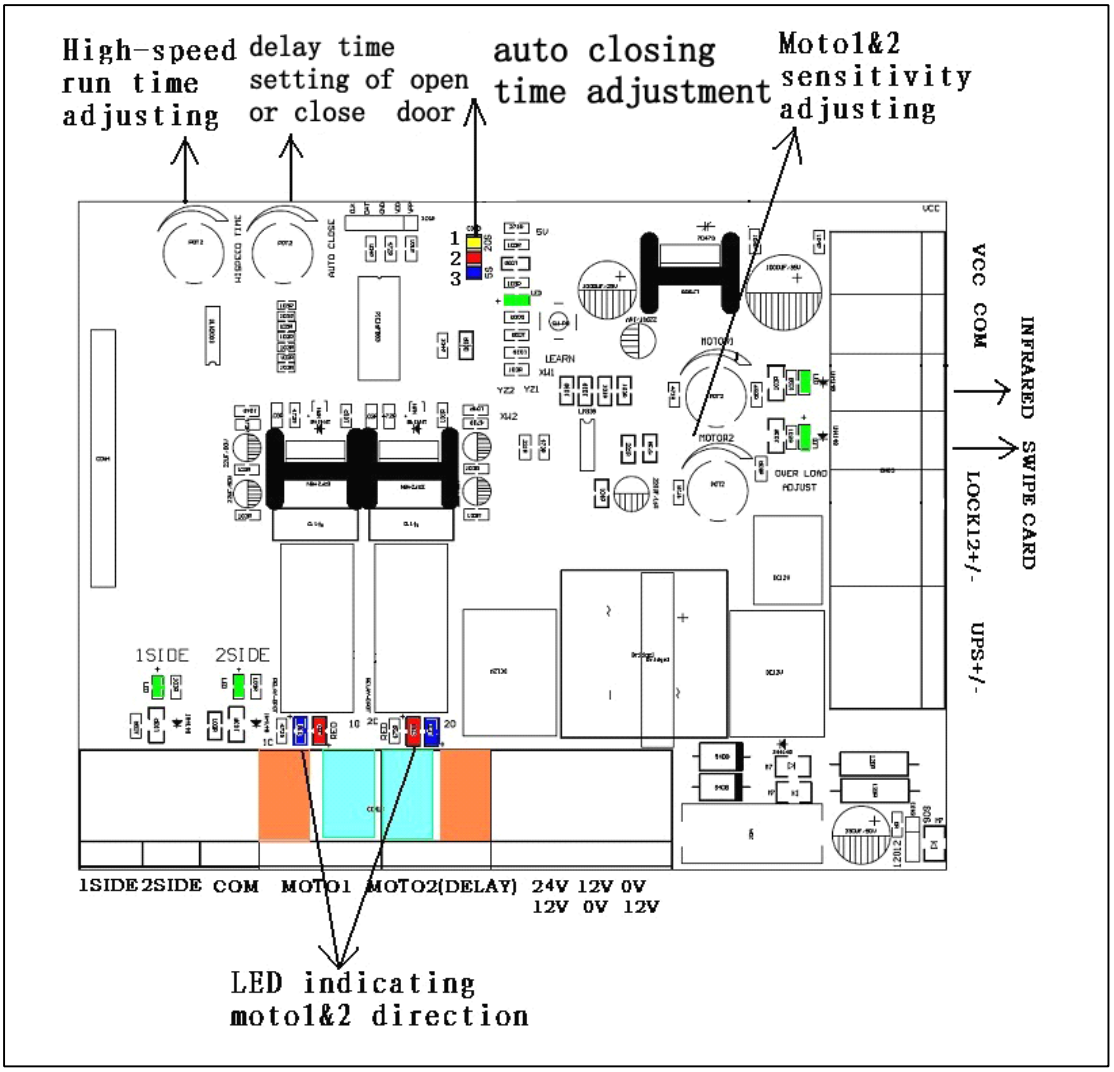


Manual for Control Panel

1. Technical Parameters:

1. Control Panel Voltage: AC/DC 12V-24V
2. Motor’s Voltage: 12VDC/24VDC
3. Encoder For transmitter: Our own customed rolling code.
4. Support remote control:Can memorize 20PCS transmitters at most
5. Range of application: Suit for all double arms swing gate opener

2. Wiring diagram for control panel:



3. Functions and testing:

1. Indicator LED light: It's always on once the system electrified. LED indicator for "auto-closing"flashes every 1second. It turns off when enter into the learning code state or removing code state; it flashes twice after successfully learning code or removing code.

2. Transmitter : using our company own customed rolling code. Singe-leaf button controls opening and closing of MOTOR2, double-leaf button simultaneously controls opening and closing of MOTOR1 & MOTOR2. The control panel can memorize 20 transmitters at most.

3. Code-learning: press and hold learning button for 1second then release, LED

turns off and press any button of transmitter, then LED flashes twice, now the codes has been learnt to the panel. If there is no any signals received within 5seconds, the LED will light and then exit code-learning state .

4. Code-removing: press and hold learning button (once you press learning button,LED is off), 5seconds later LED lights up, now the codes has been removed.

5, Instructions for all terminals:

2 SIDE	This terminal is same as “single-leaf button” of transmitter. It controls the door as Open-Stop-Close-Stop-Open cyclically
1SIDE	This terminal is same as “double-leaf button” of transmitter. It controls the door as Open-Stop-Close-Stop-Open cyclically
COM	Common terminal for connecting ground
MOTO 1	Wiring of motor1: should connect wires of the motor which opens first.Or connecting the wires of motor installed at the side of door with thrust plate.
MOTO1(DELAY)	Wiring of motor2: should connect wires of the motor which you could use single-leaf button to control.
24V/12V-12V/0V-0V/12V	Supply AC 12V*2 (switch high-speed running to low-speed running)Supply DC 12V (Motor only runs in low-speed, Need to adjust HSPEED TIME trimmer to the minimum position) Supply DC 24V &12V together (switch high-speed running to low-speed running)
UPS+/-	External 12V storage battery, the storage battery can be charged. When there is no power supply, the UPS will start working automatically. The standby current of UPS when it is working is 20mA, the current is around 1.5A when the motor is running.(specific current depends on the actual usage)
LOCK12+/-	Ternimal for Electric lock.
SWIPE CARD	Swipe card to open two gates, active low, auto-closing is enabled after the door opened.

INFRARED	Terminal for photocells, active low, when the obstacle sensed by photocell while the door is closing, the door will stop and then rebound to open.
COM	Common terminal for connecting ground
VCC	12-28V output voltage; supply the power for photocells or other saftey devices; current ≤200mA.

6. Motor running speed: Soft start when open and close the door, 700ms later then switch to high-speed running. (Time adjusting: 0~33 seconds high speed time can be adjusted by HSPEED TIME trimmer). When high-speed running time ends, it switches into low-speed running till the motor stops running. When the motor stops in the halfway for the first time during it runs from open limit position or close limit position, then high-speed running time will adjust automatically based on previous running time.

7. High-speed running time adjustment: Adjusting 0~30s high speed running time through HSPEED TIME trimmer. When the trimmer turns to the minimum, it's 0s, the high-speed running disabled, the motor keeps running in low-speed. Only when both motors working, then high-speed running timing enabled.

8. Limit & obstacle sensitivity adjustment: During the opening and closing, the motor stops running once the limit & obstacle sensitivity signals sensed. Sensitivity of the two motors are set seperately. Adjusting the sensitivity of motor1 through MOTOR1 trimmer, while MOTOR2 trimmer control sensitivity of motor2. Notice: Arm-type motors only have the funcion of obstacle sensitivity, no functions of limit.

9. MOTOR1&2 opening/closing delay time adjustment: When opening the door, motor2 opens first then motor1 opens later; while closing the door, motor1 closes first then motor2 closes. And opening/closing delay time can be adjusted 0~30s.

10. Auto closing time adjustment: Auto closing funtion enabled when opening the door by swiping the card which should have card-reader installed. Auto closing time can be set for 0 second,5seconds and 10 seconds by using jumper. The auto

closing is disabled when you set 0 second. No jumper connected means 0 second. When jumper 1 connect with jumper 2 it means 10 seconds. When jumper 2 connects with jumper 3 it means 5 seconds. The LED indicator for auto closing time count down flashes every 1second.

11. Motor delay time protection: As soon as the motor running continuously more than 60s, the motor will automaticlly stop working to protect the motor.

12. Motor direction indentification:When one side of door installed thrust plate or the contoller has function of setting order of opening & closing, or functions of swiping card, make sure all the wiring connections of 2 motors are correct. When the motor is running, if motor direction LED indicator is blue, now the motor should be in “opening”operation, if no, please exchange the wiring connections of 2 motors; when the motor direction LED indicator is RED, the motor should be in the “closing”operation. If no, please exchage the wiring connections. Otherwise can not open and close the door normally.